

WE CLAIM:

1. A method for forming a cutting edge along an edge portion of a blade stock, the method comprising:

moving said blade stock with respect to a first cutting element rotating about a first rotational axis, said first rotational axis forming one of an acute angle and a perpendicular angle with respect to said cutting edge;

contacting said edge portion and said first cutting element and forming a first cutting surface along said edge portion.

2. The method according to Claim 1 further comprising:

moving said blade stock with respect to a second cutting element rotating about a second rotational axis, said second rotational axis forming one of an acute angle and a perpendicular angle with respect to said cutting edge;

contacting said edge portion and said second cutting element and forming a second cutting surface along said edge portion so that said second cutting surface intersects said first cutting surface to form said cutting edge.

3. The method according to Claim 1, wherein said first cutting element comprises a grinding wheel.

4. The method according to Claim 1, wherein said first cutting element rotates about said first rotational axis generally perpendicular to said cutting edge.

5. The method according to Claim 1, wherein said first cutting element rotates about said first rotational axis within a vertical cutting plane defined by said first cutting element.

6. The method according to Claim 1, wherein said edge portion moves with respect to said first cutting element in a generally linear direction.

7. The method according to Claim 1, wherein at least a portion of said first cutting surface is formed as a planar surface.

8. The method according to Claim 1, wherein said first cutting surface is formed by grinding a first blade surface of said blade stock along at least a portion of said edge portion.

9. The method according to Claim 8, wherein a working surface of said first cutting element forming an acute angle with respect to said first blade surface grinds said first blade surface.

10. The method according to Claim 2, wherein said second cutting surface is formed by grinding a second blade surface of said blade stock along at least a portion of said edge portion.

11. The method according to Claim 10, wherein a working surface of said second cutting element forming an acute angle with respect to said second blade surface grinds said second blade surface.

12. The method according to Claim 1, wherein contacting said edge portion and said first cutting element forms a generally smooth first cutting surface.

13. The method according to Claim 1, wherein contacting said edge portion and said first cutting element forms a plurality of striations along a length of said first cutting surface.

14. The method according to Claim 1, wherein said blade stock moves and said first cutting element is stationary.

15. The method according to Claim 1, wherein said blade stock is stationary and said first cutting element moves.

16. The method according to Claim 1, wherein each of said blade stock and said first cutting element moves.

17. An arrowhead blade having a cutting edge formed according to the method of Claim 1.

18. A method for forming a cutting edge along an edge portion of a blade stock, the method comprising:

moving said edge portion with respect to a first cutting element rotating about a first rotational axis;

contacting said edge portion and said first cutting element and forming a first cutting surface along at least a portion of said edge portion on a first blade surface of said blade stock, in a plane said first cutting surface formed parallel to said first rotational axis.

19. The method according to Claim 18, wherein a working surface of said first cutting element forming an acute angle with respect to said first blade surface forms said first cutting surface.

20. The method according to Claim 18, wherein said first cutting element comprises a wheel.

21. The method according to Claim 18, wherein said first cutting element rotates about said first rotational axis generally perpendicular to said cutting edge.

22. The method according to Claim 18, wherein said edge portion is generally linear.

23. The method according to Claim 18, further comprising:
a second cutting element rotating about a second rotational axis;
contacting said edge portion and said second cutting element and forming a second cutting surface along at least a portion of said edge portion on a second blade surface of said blade stock, said second cutting surface formed parallel to said second rotational axis, so that said second cutting surface intersects said first cutting surface.

24. The method according to Claim 23, wherein a working surface of said second cutting element forming an acute angle with respect to said second blade surface forms said second cutting surface.

25. An arrowhead blade having a cutting edge formed according to the method of Claim 18.

26. A method for forming a cutting edge along an edge portion of a blade stock, the method comprising:
rotating a first cutting element about a first rotational axis;
moving said blade stock with respect to said first cutting element;
contacting said edge portion with said first cutting element to form a first cutting surface that defines a cutting edge along a line of said edge portion; and
orienting said first rotational axis in a skewed position with respect to said line.

27. The method according to Claim 26, further comprising rotating a second cutting element about a second rotational axis oriented in a skewed position with respect to said line.

28. The method according to Claim 27, wherein said blade stock is moved with respect to said second cutting element.

29. The method according to Claim 28, wherein said edge portion is contacted with said second cutting element.

30. The method according to Claim 29, wherein said second cutting surface is formed having one of a planar surface and an arcuate surface.

31. The method according to Claim 26, wherein said first cutting surface is formed having one of a planar surface and an arcuate surface.

32. A method for forming a cutting edge along an edge portion of a blade stock, the method comprising:

rotating a first cutting element about a first rotational axis;

moving said blade stock with respect to said first cutting element;

contacting said edge portion with said first cutting element to form a first cutting surface that defines a cutting edge along an arc segment of said edge portion; and

orienting said first rotational axis in a skewed position with respect to a line that is tangent to said arc segment.

33. The method according to Claim 32, further comprising rotating a second cutting element about a second rotational axis oriented in a skewed position with respect to said line.

34. The method according to Claim 33, wherein said blade stock is moved with respect to said second cutting element.

35. The method according to Claim 34, wherein said edge portion is contacted with said second cutting element.

36. The method according to Claim 35, wherein said second cutting surface is formed having one of a planar surface and an arcuate surface.

37. The method according to Claim 32, wherein said first cutting surface is formed having one of a planar surface and an arcuate surface.

38. A method for forming a cutting edge along an edge portion of a blade stock, the method comprising:

moving said edge portion with respect to a first cutting element rotating about a first rotational axis;

contacting said edge portion and a first contacting line defined along a width of said first cutting element, said contacting line generally perpendicular with respect to said edge portion, and forming a first cutting surface along said edge portion on a first blade surface of said blade stock.

39. The method according to Claim 38, further comprising:

moving said edge portion with respect to a second cutting element rotating about a second rotational axis;

contacting said edge portion and a second contacting line defined along a width of said second cutting element, said contacting line generally perpendicular with respect to said edge portion, and forming a second cutting surface along said edge portion on a second blade surface of said blade stock so that said second cutting surface intersects said first cutting surface.

40. An arrowhead blade having a cutting edge formed along at least a portion of an edge portion of said arrowhead blade comprising:

a first cutting surface formed on a first blade surface of said arrowhead blade along at least a portion of said edge portion by contacting said edge portion and a first cutting element rotating about a first rotational axis, said first rotational axis forming one of an acute angle and a perpendicular angle with respect to said first blade surface; and

a second cutting surface formed on a second blade surface of said arrowhead blade along at least a portion of said edge portion by contacting said edge portion and a second cutting element rotating about a second rotational axis, said second rotational axis forming one of an acute angle and a perpendicular angle with respect to said second blade surface, so that said second cutting surface intersects said first cutting surface.

41. The arrowhead blade according to Claim 40, wherein at least a portion of at least one of said first cutting surface and said second cutting surface is planar.

42. The arrowhead blade according to Claim 40, wherein at least a portion of at least one of said first cutting surface and said second cutting surface is smooth.

43. The arrowhead blade according to Claim 40, wherein at least a portion of at least one of said first cutting surface and said second cutting surface comprises a plurality of striations along a length of said cutting surface.